

Basic principles

± 10 degrees

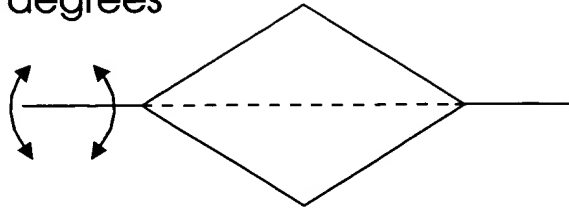


Fig. 1

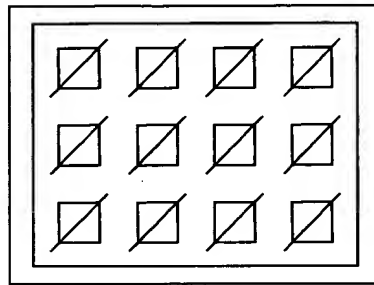


Fig. 2

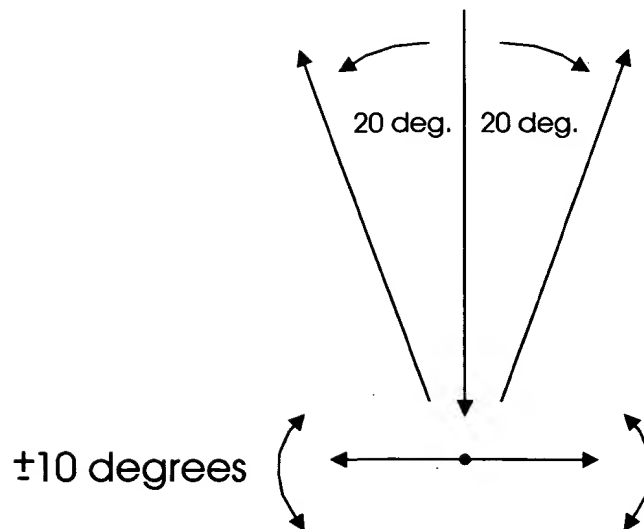


Fig. 3

Basic principles

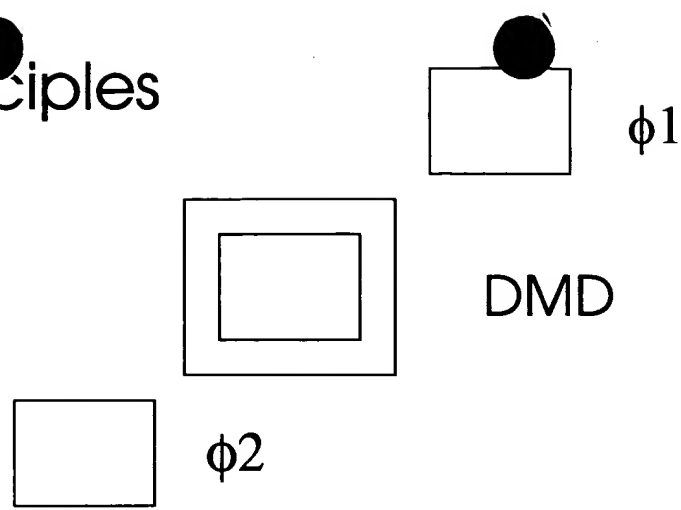


Fig. 4

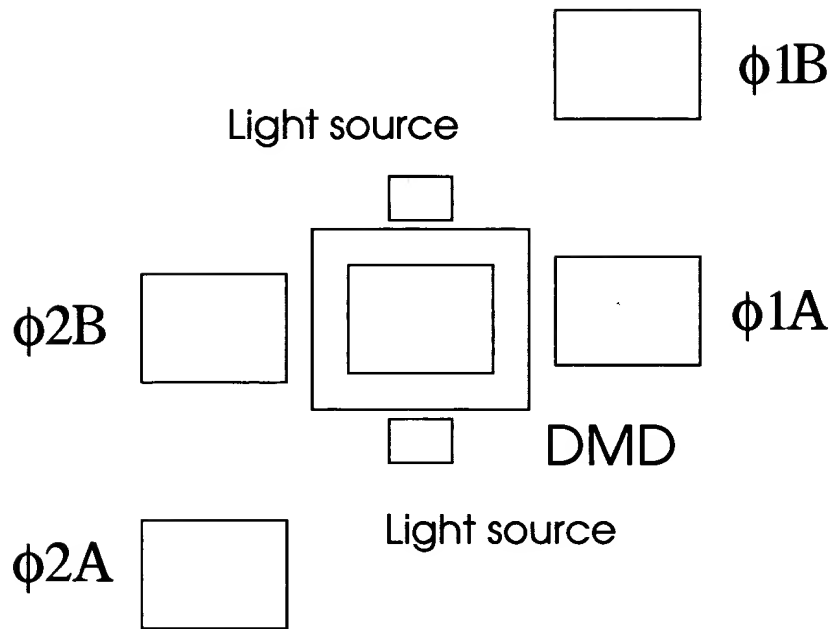


Fig. 5

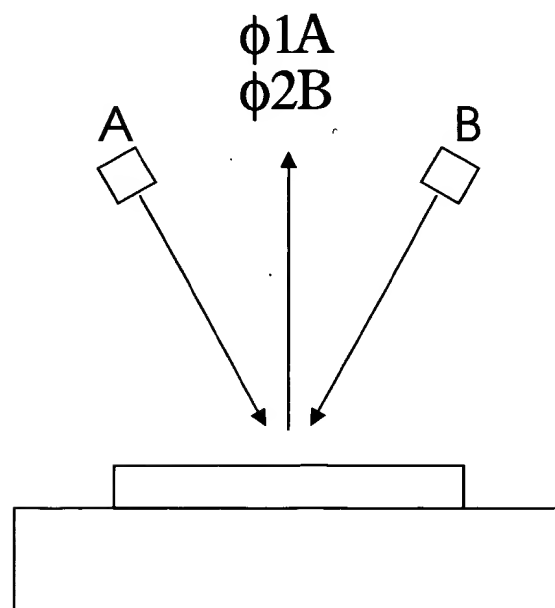


Fig. 6

Mirror HMD - Single Stage

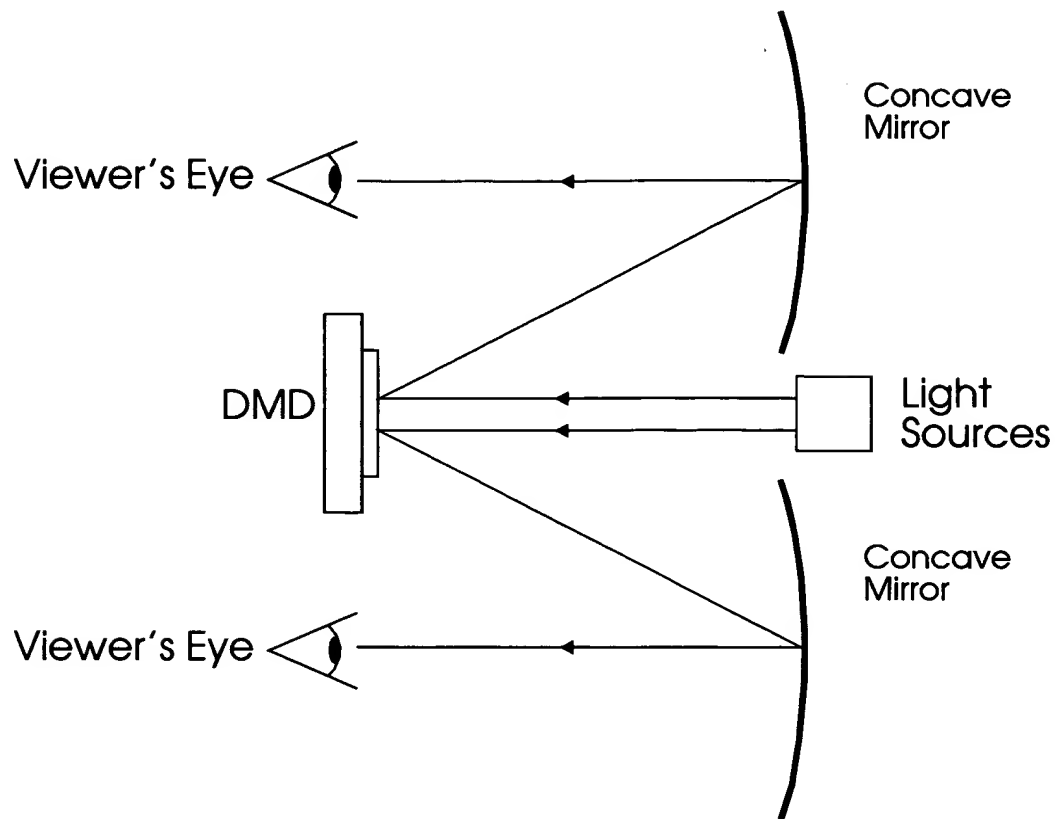


Fig. 7

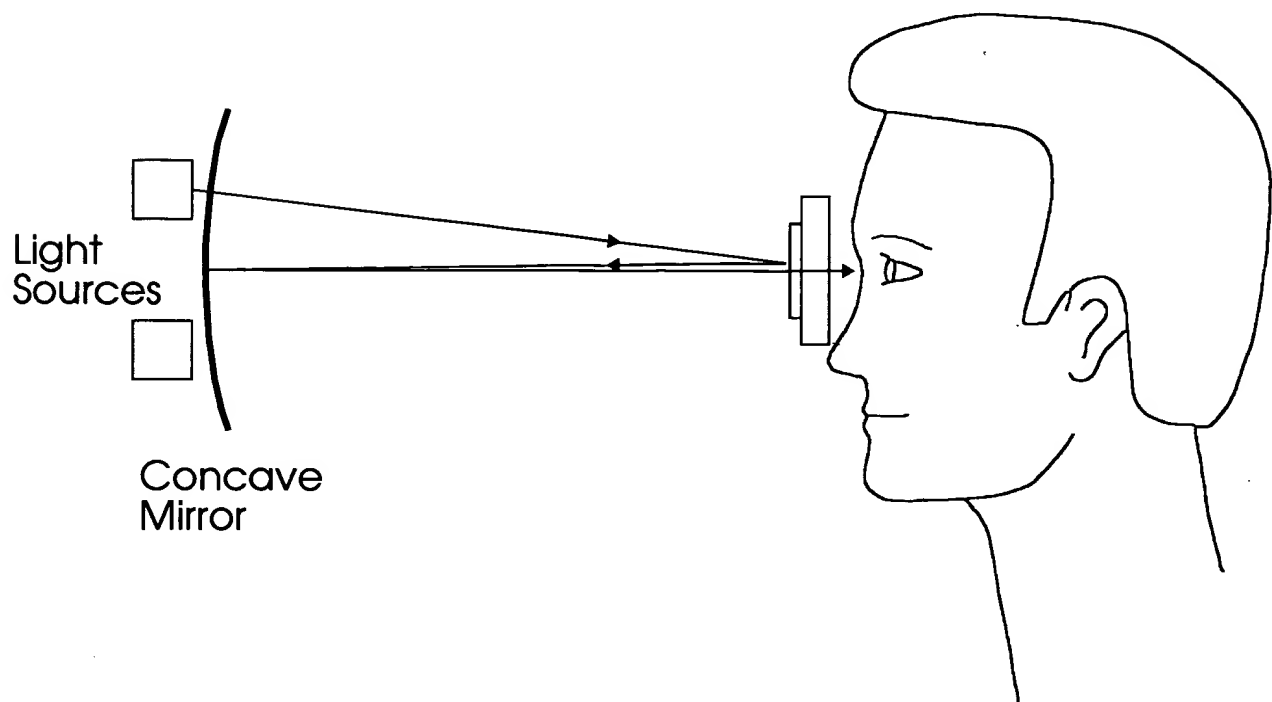


Fig. 8

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Mirror HMD - Two Stage

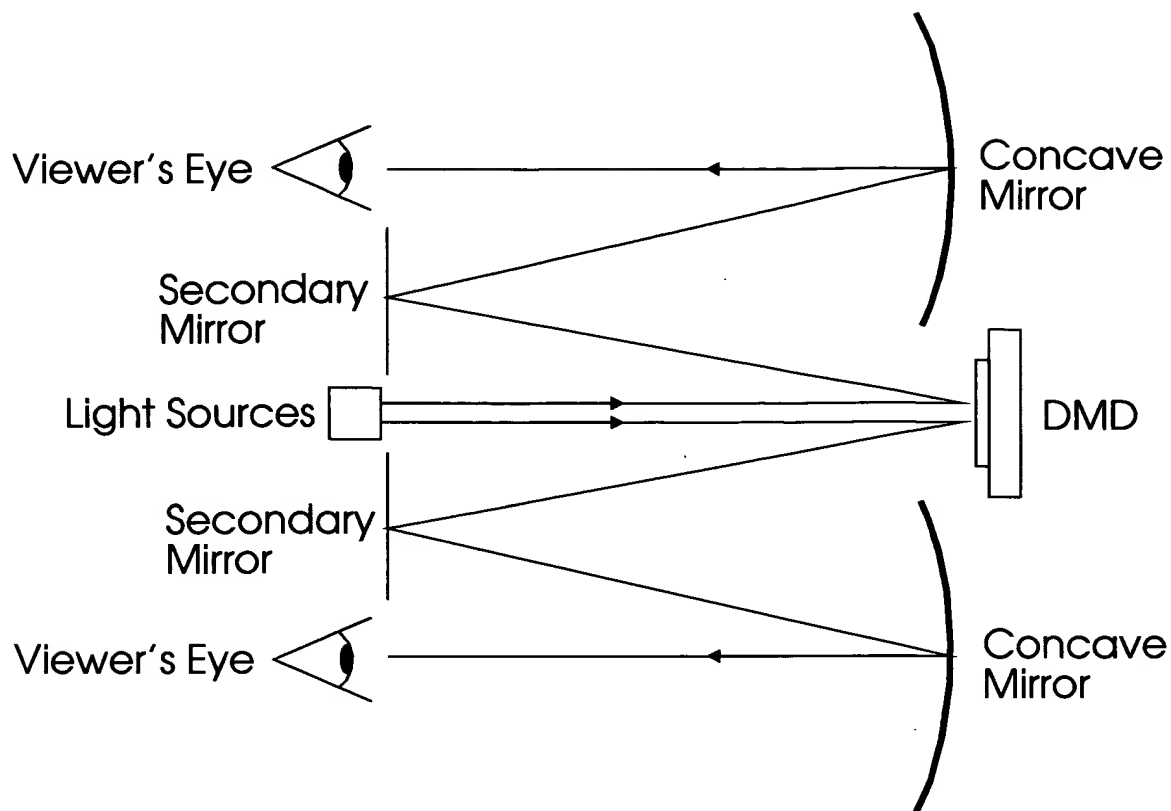


Fig. 9

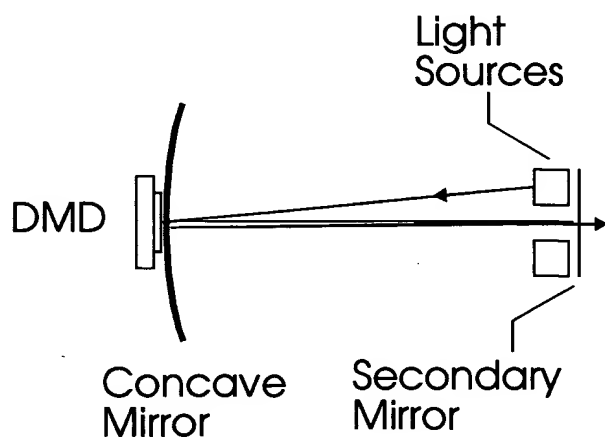


Fig. 10

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Enhancements

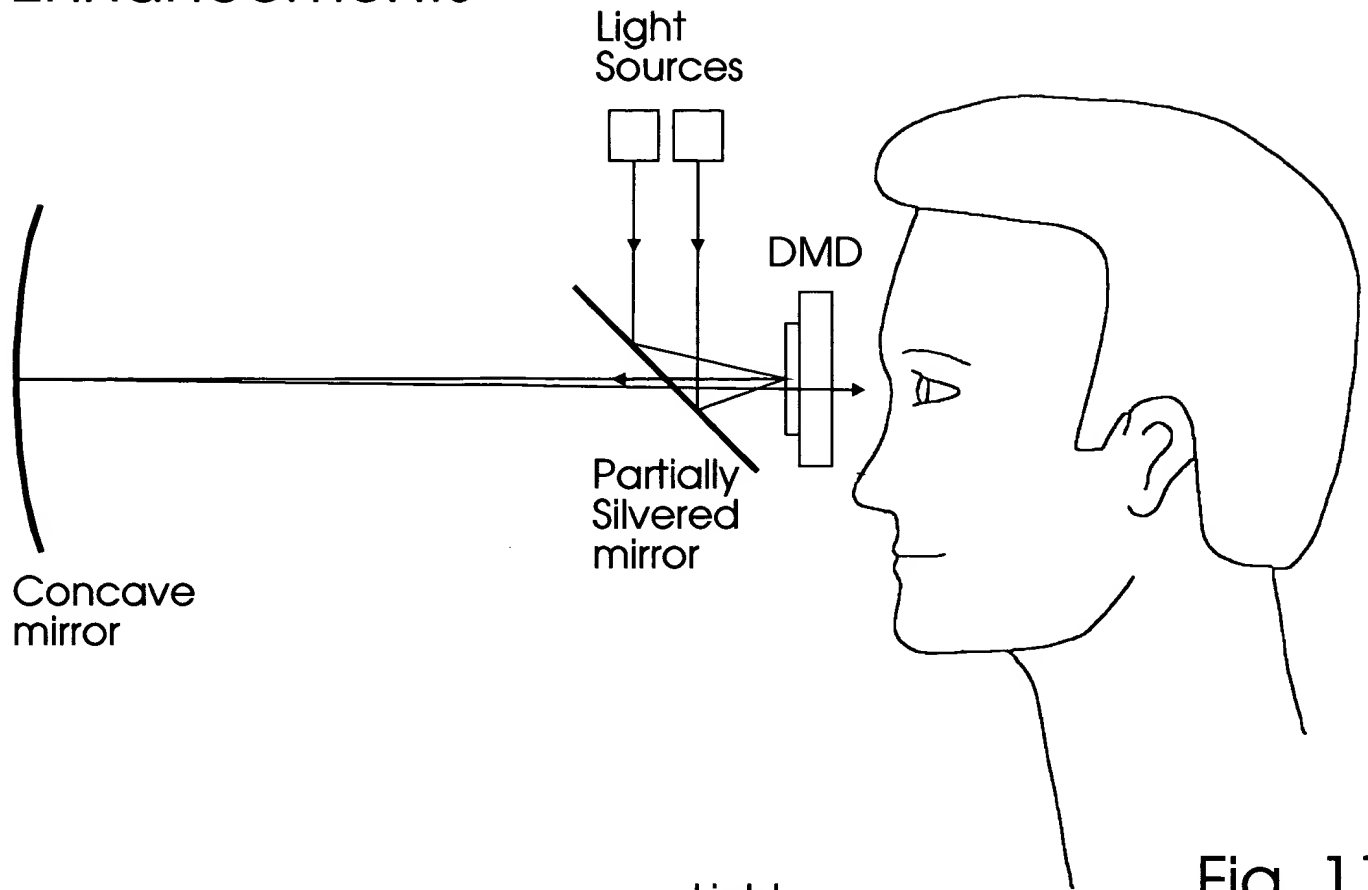


Fig. 11

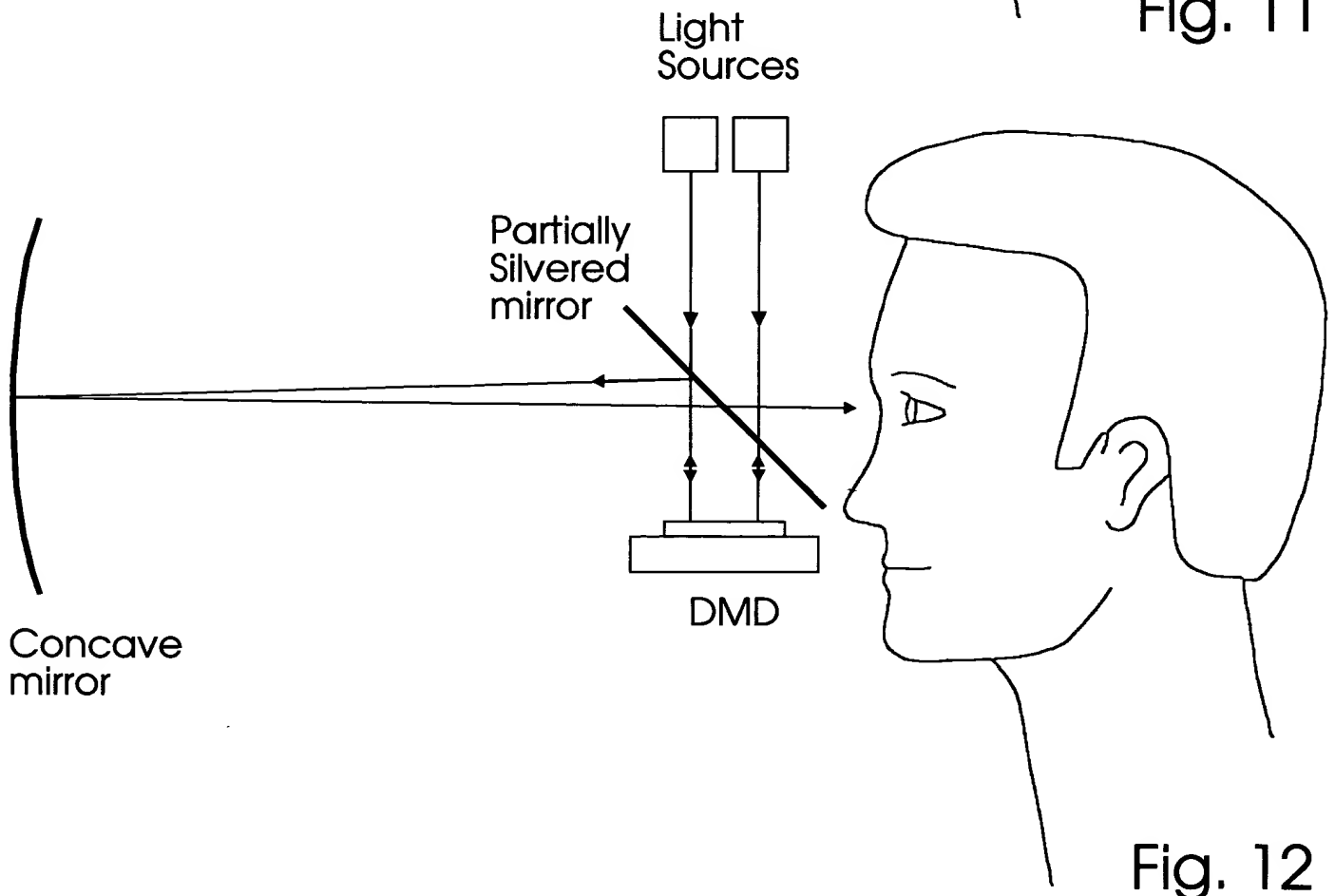


Fig. 12

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Enhancements

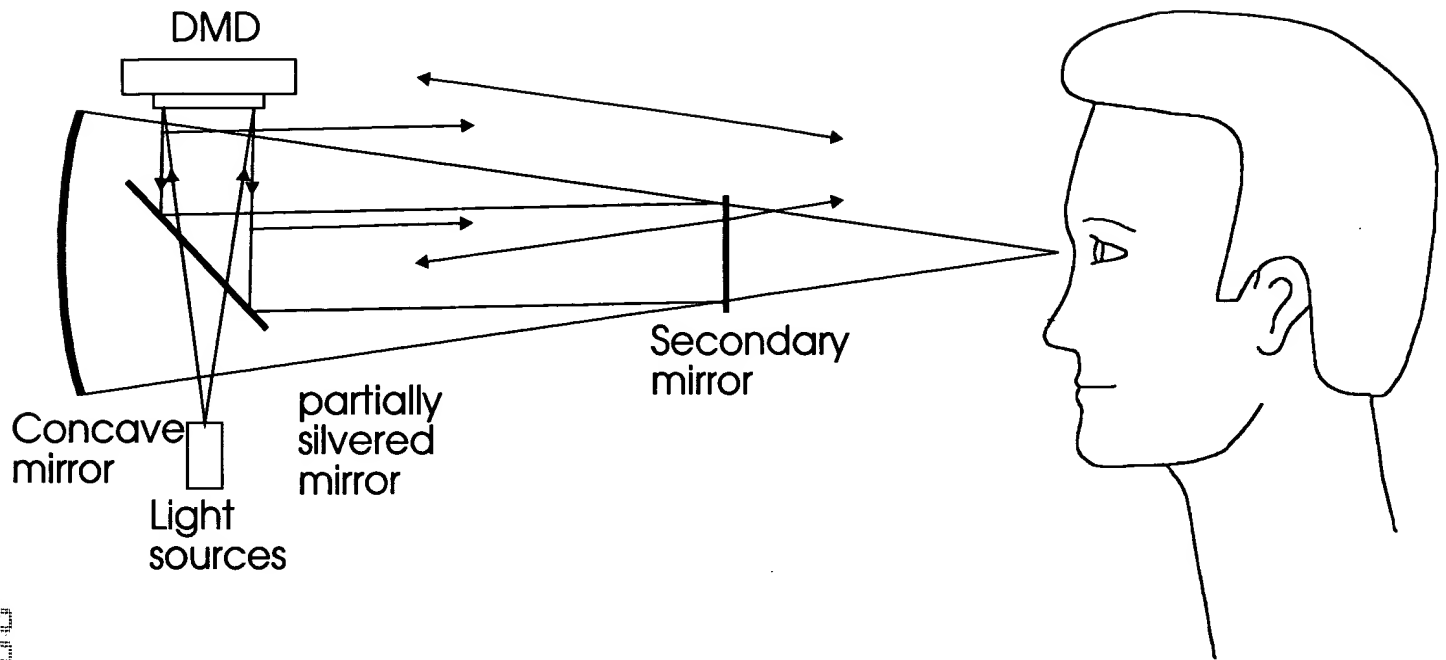


Fig. 13

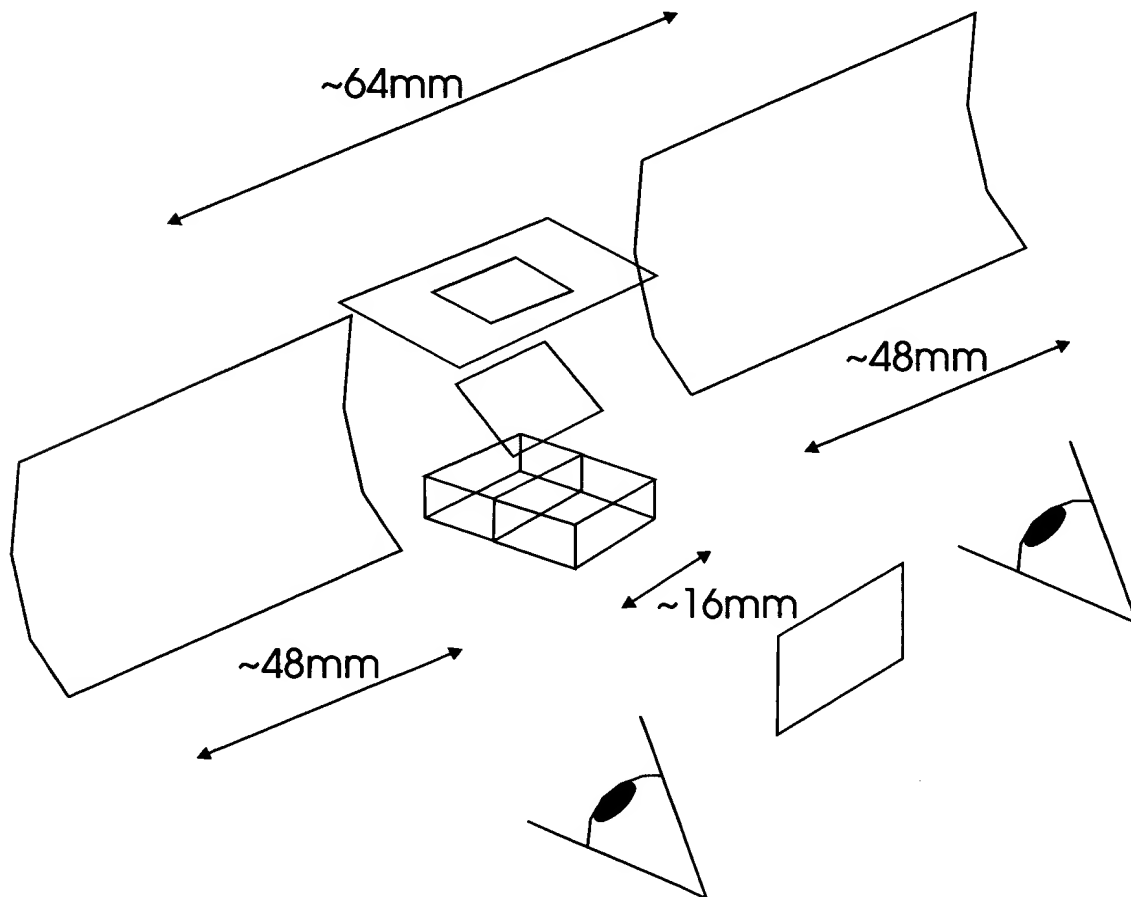
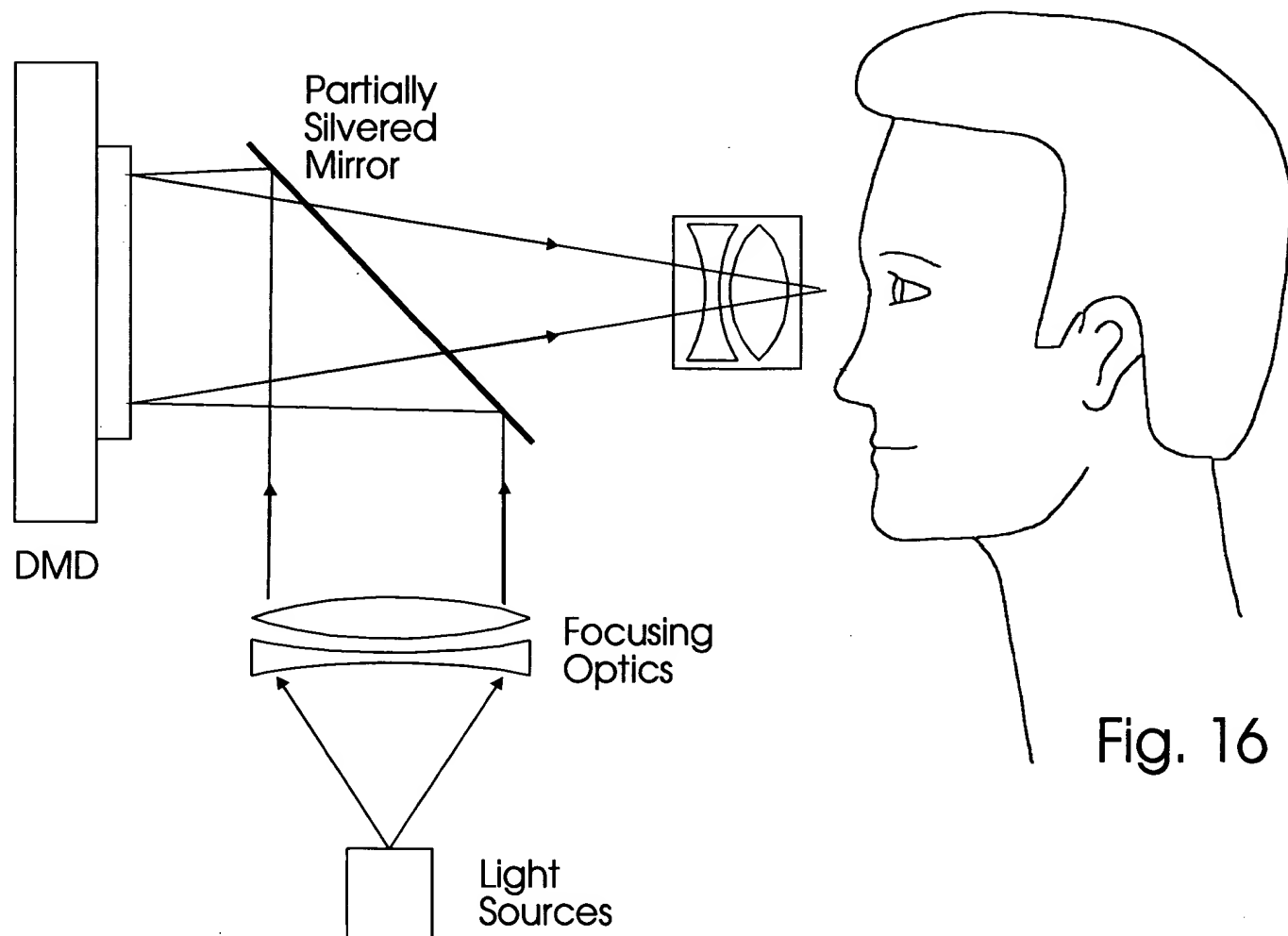
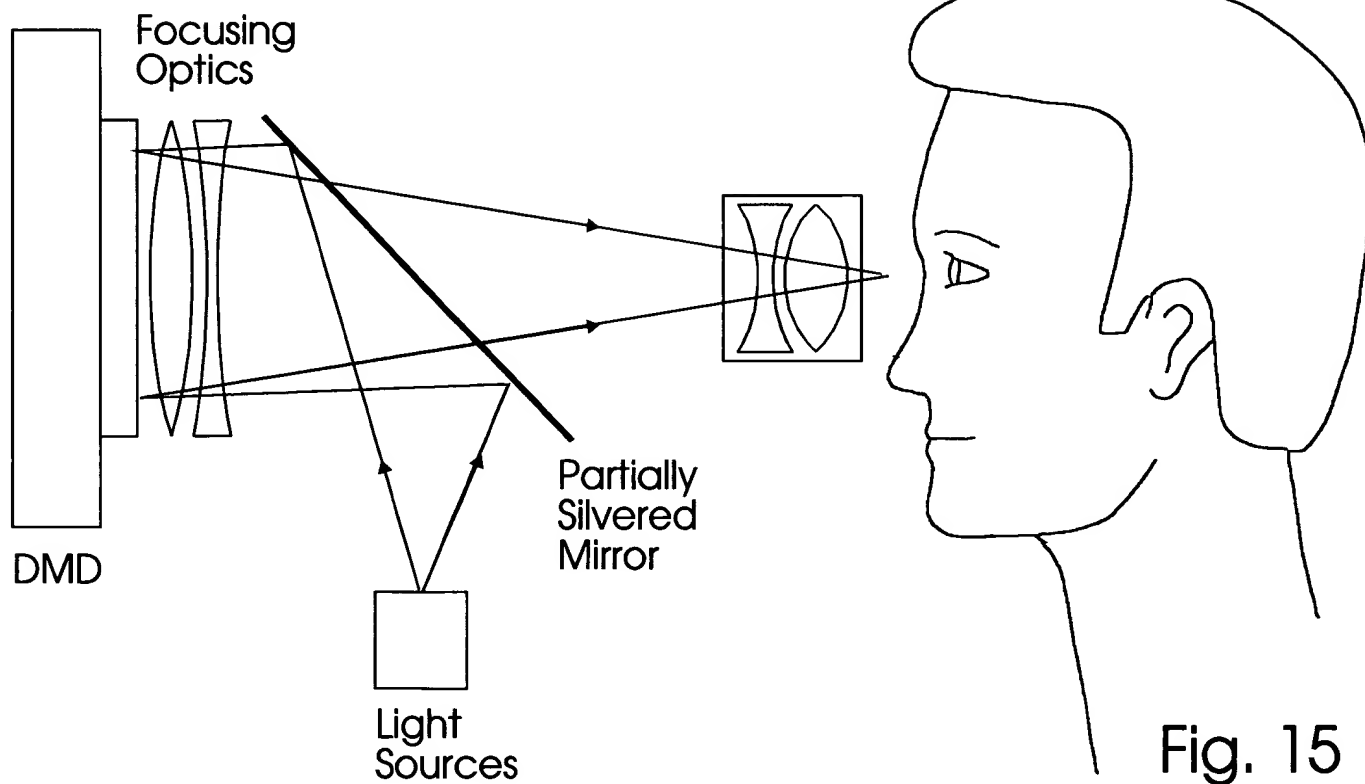


Fig. 14

Dual DMDens system



2 stage dual mirror hybrid HMD

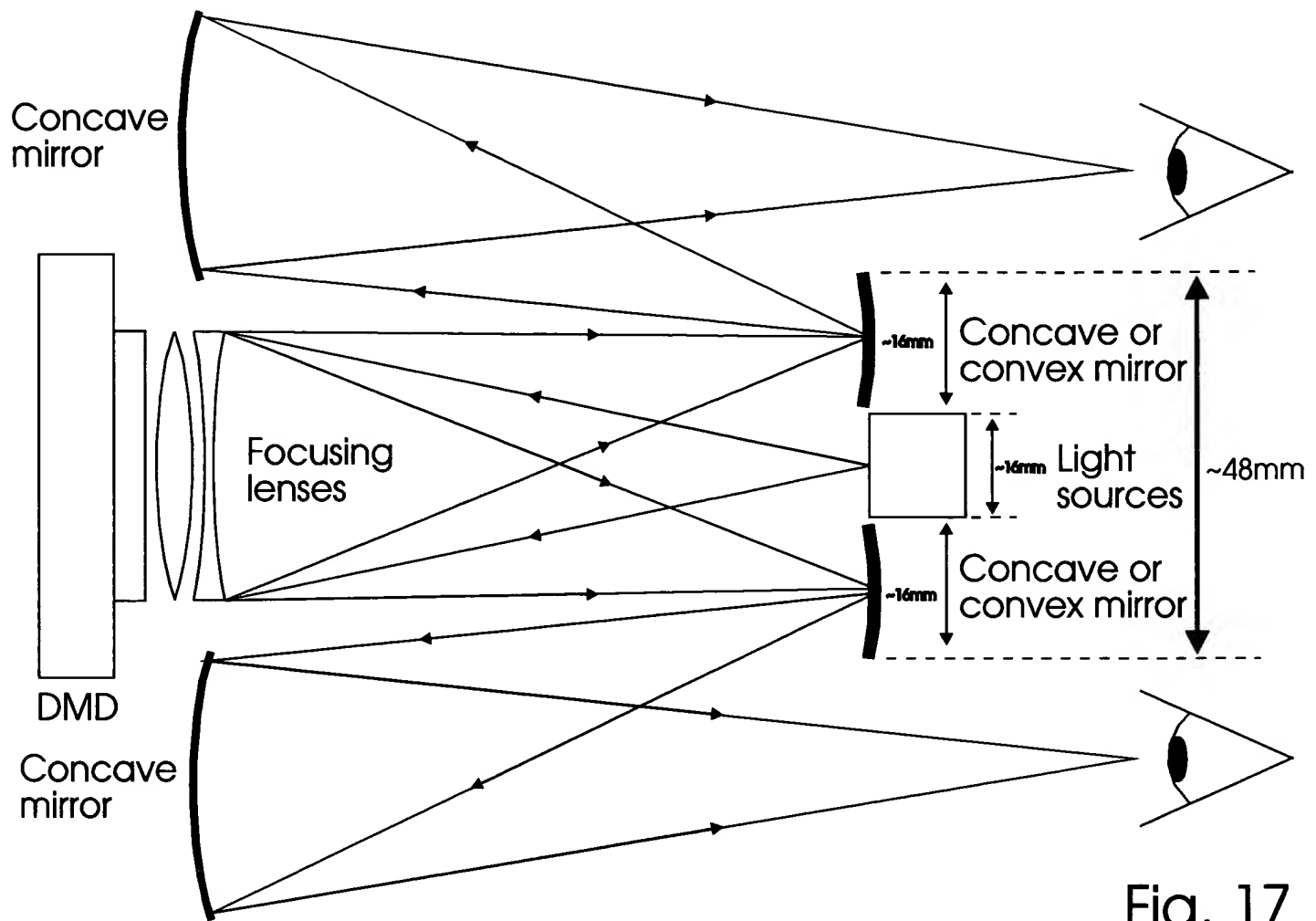


Fig. 17

Single DMD lens HMD

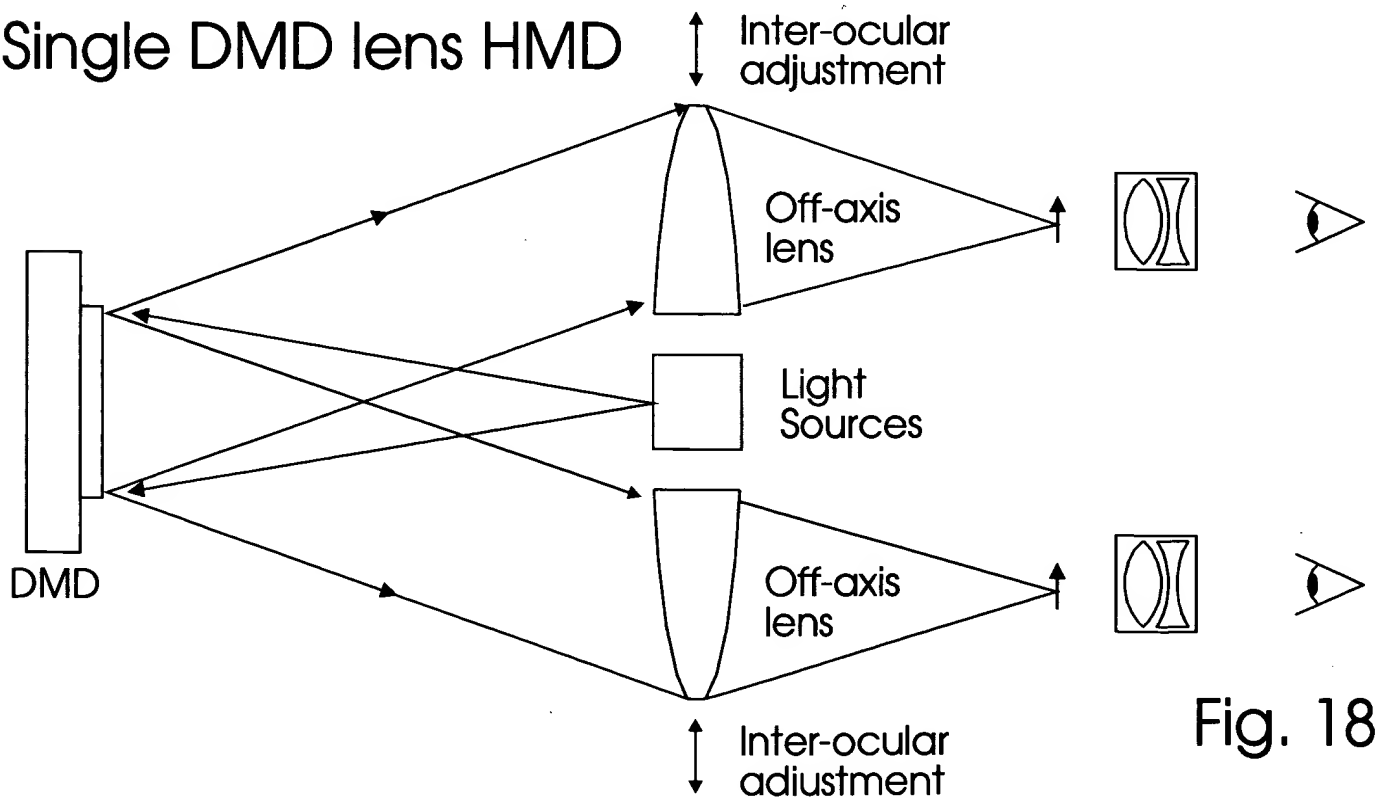


Fig. 18

Prismatic lens design

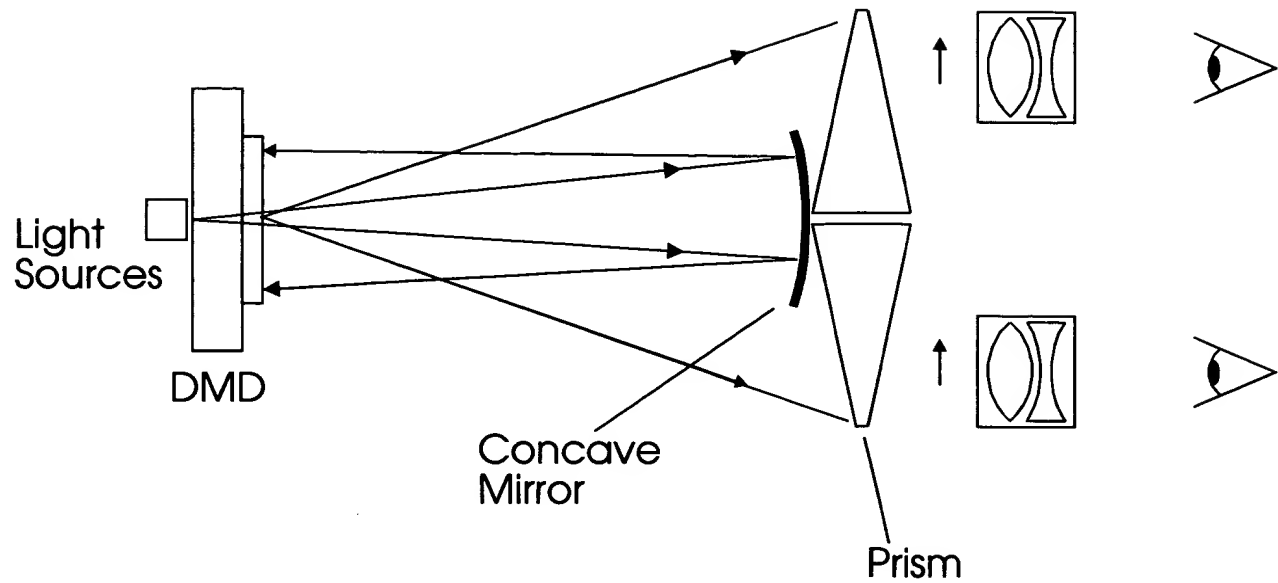


Fig. 19

Binocular lens design

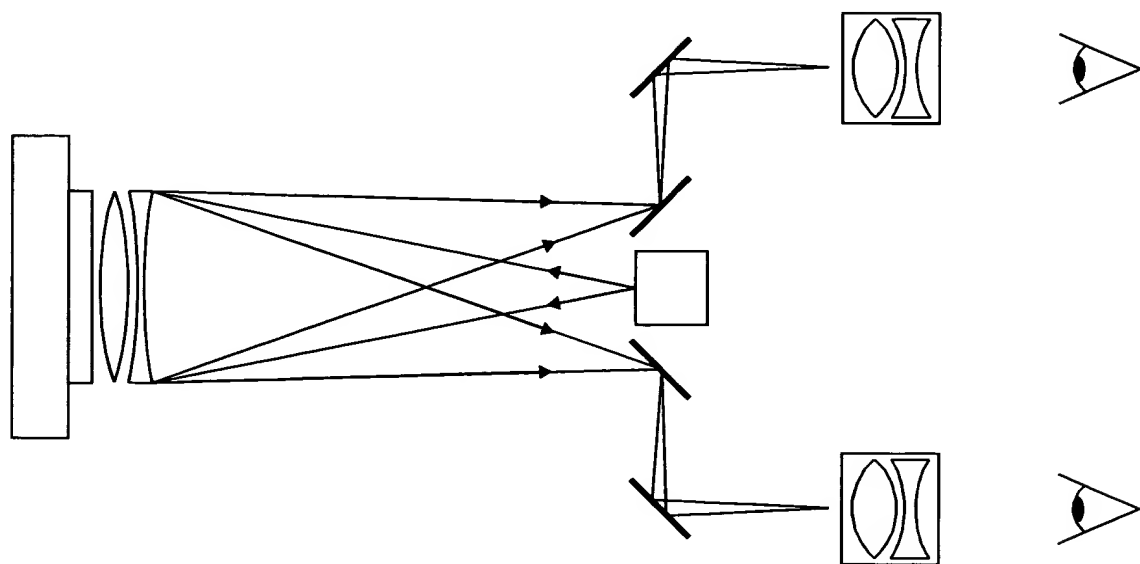


Fig. 20

Single stage hybrid lens system

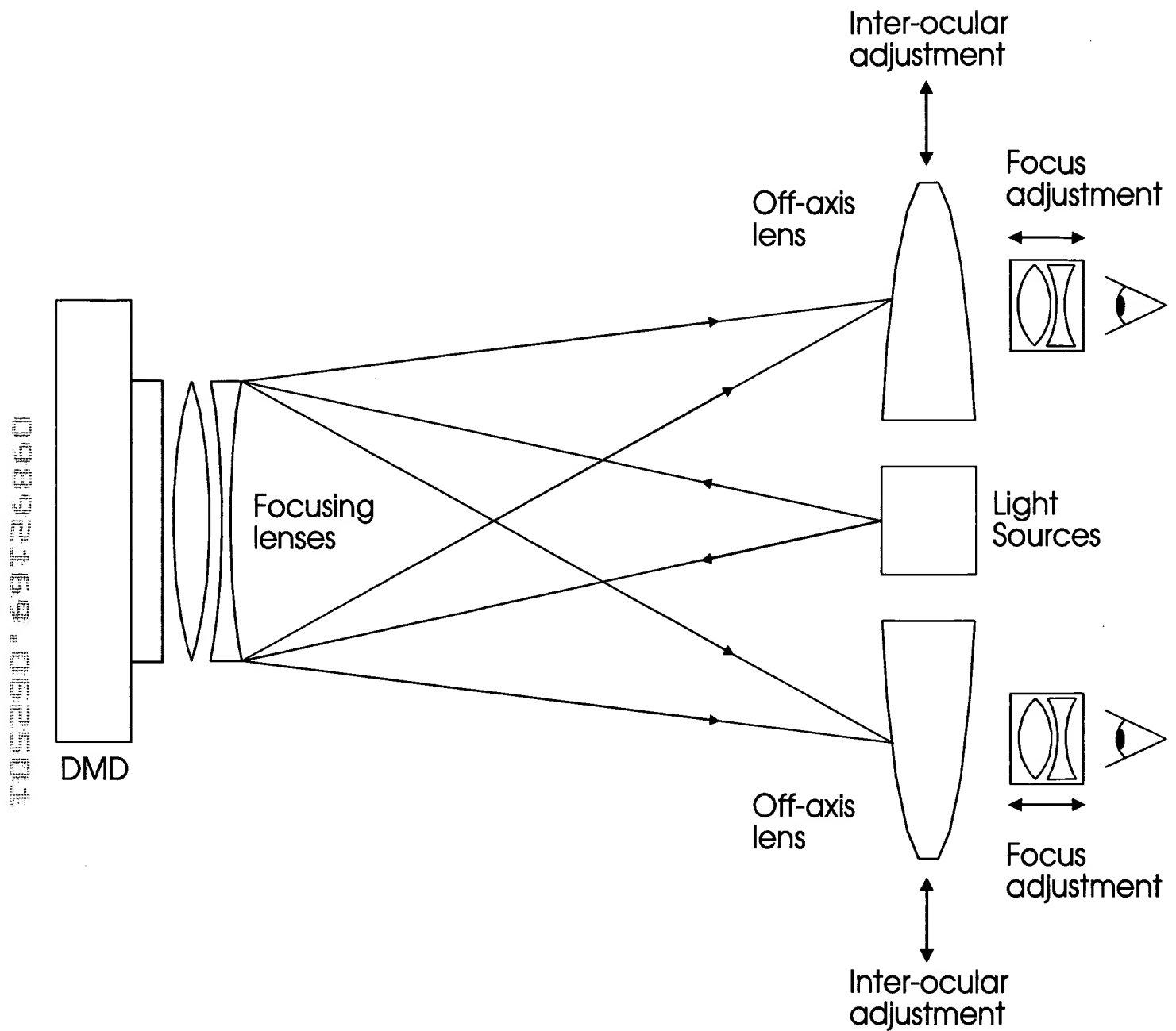


Fig. 21

2 stage hybrid lens system (preferred embodiment)

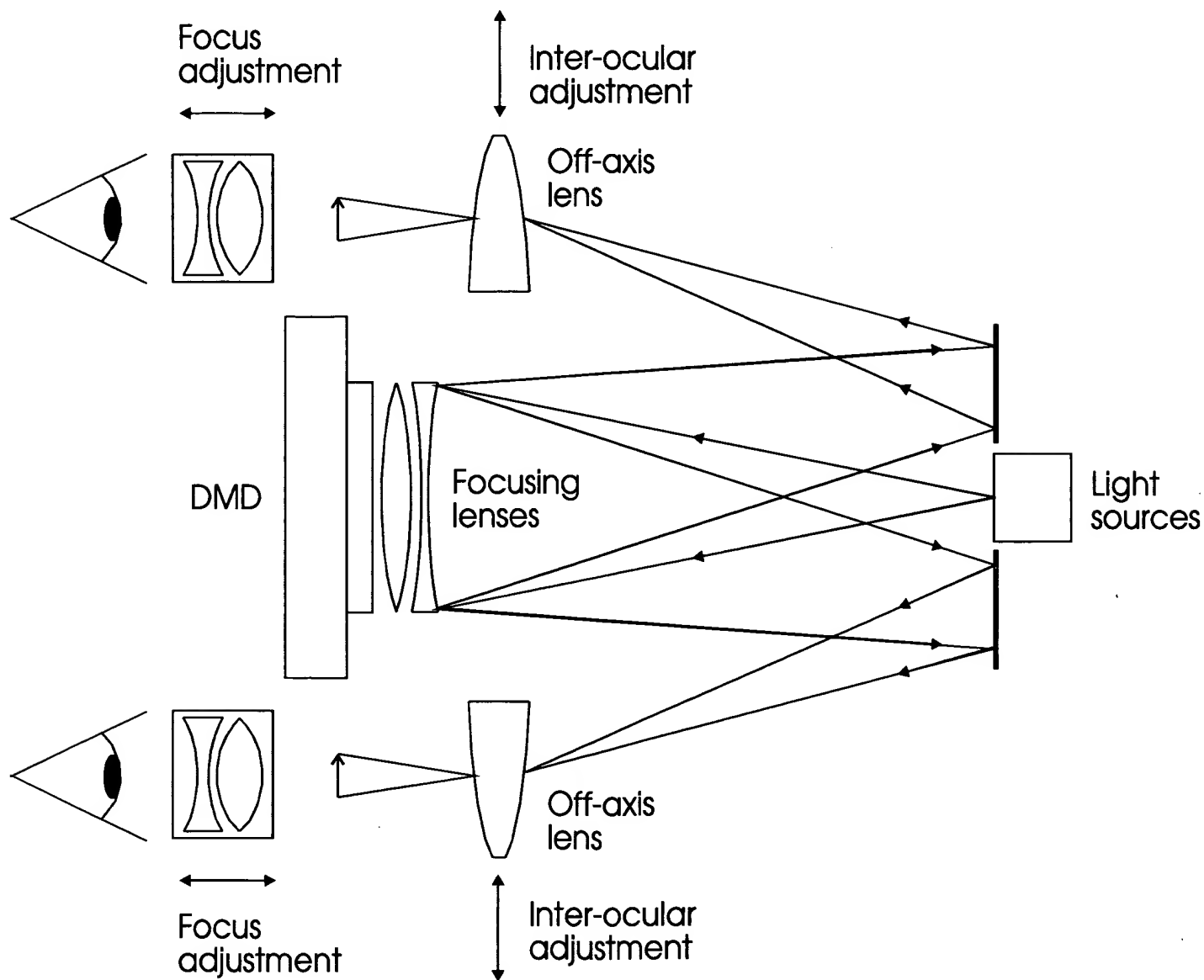


Fig. 22

Lens HMD Enhancements

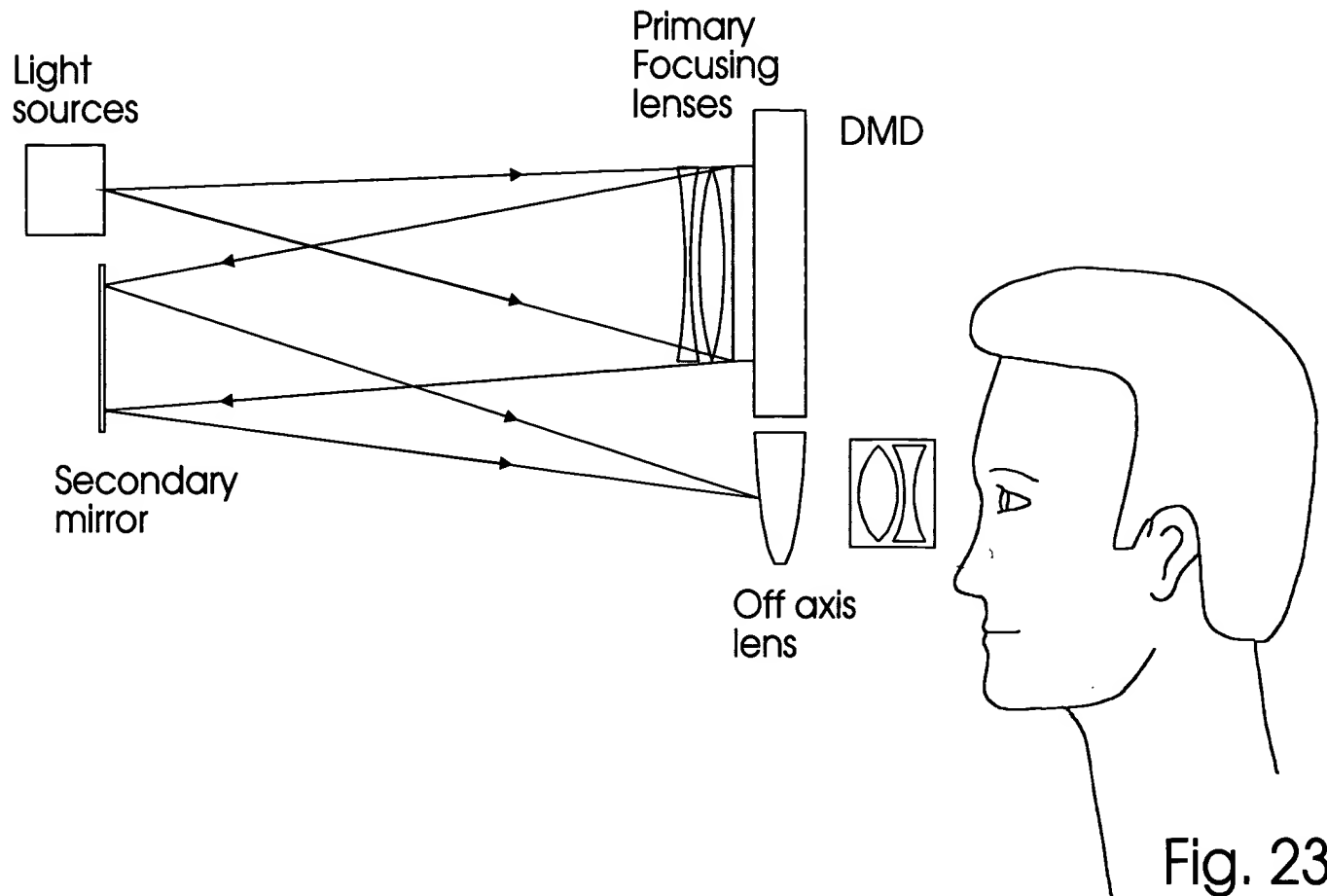


Fig. 23

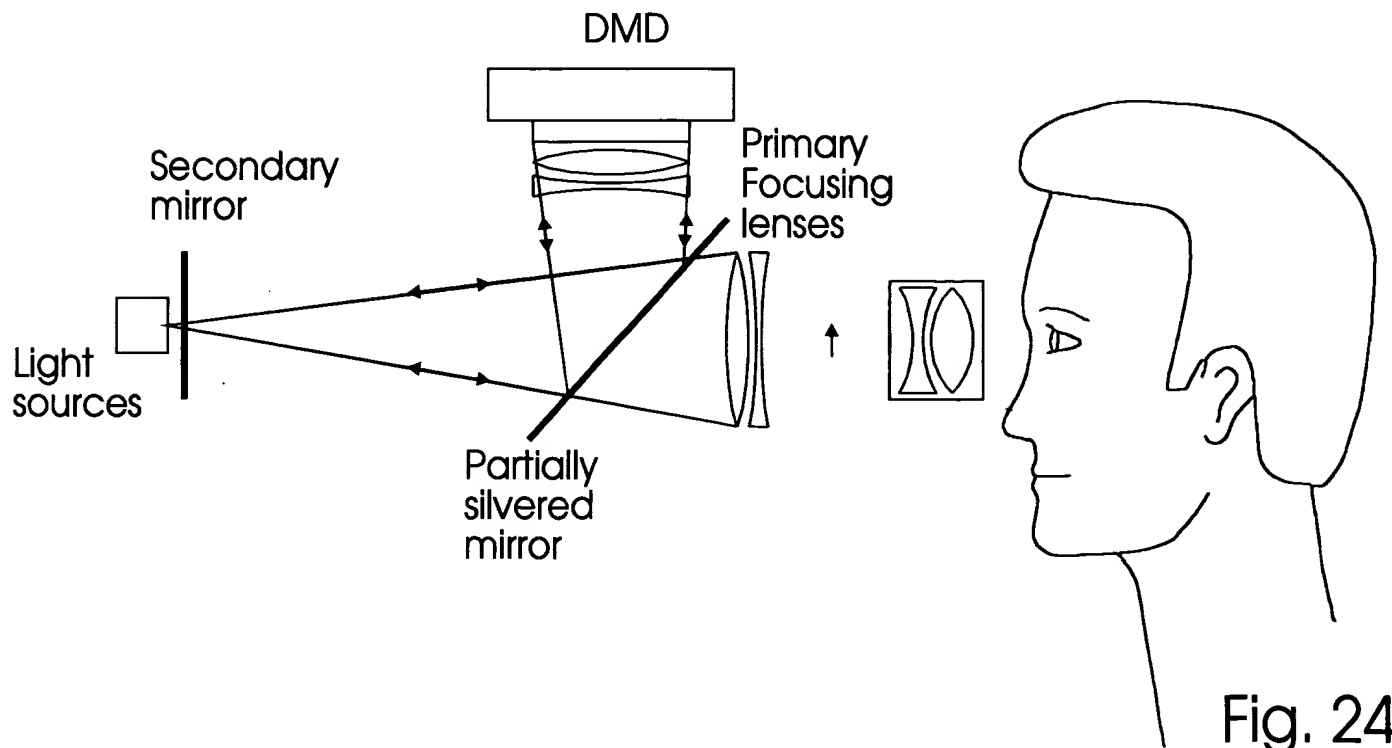


Fig. 24

Light sources

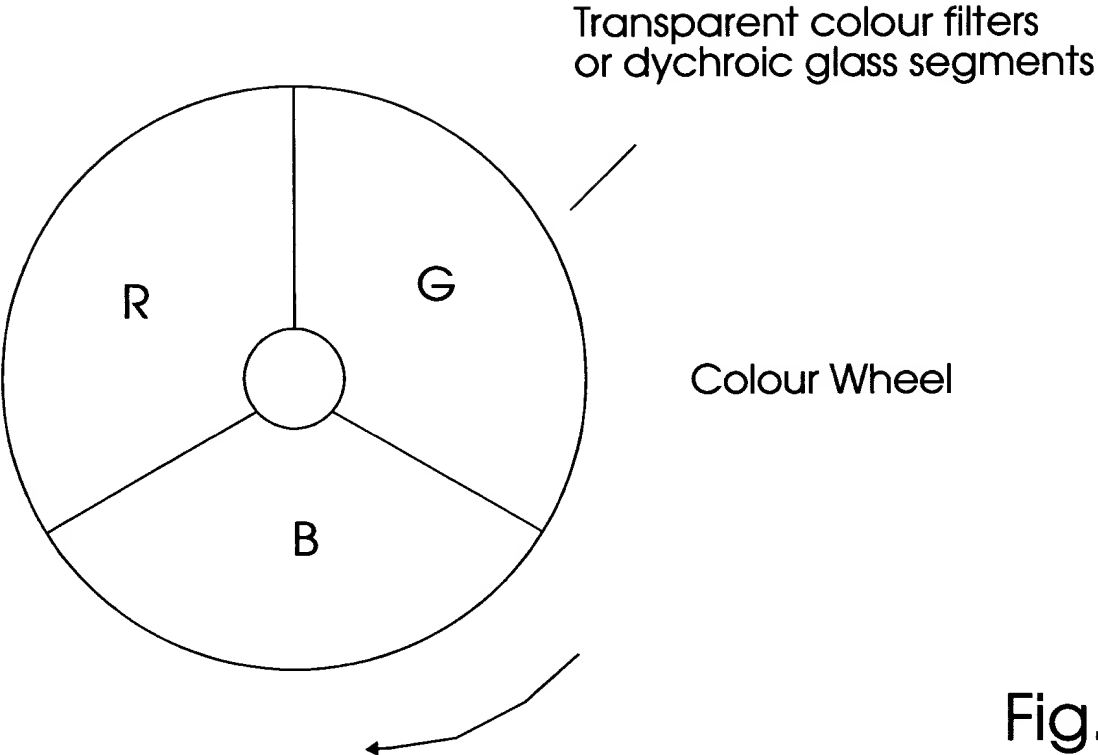


Fig. 25

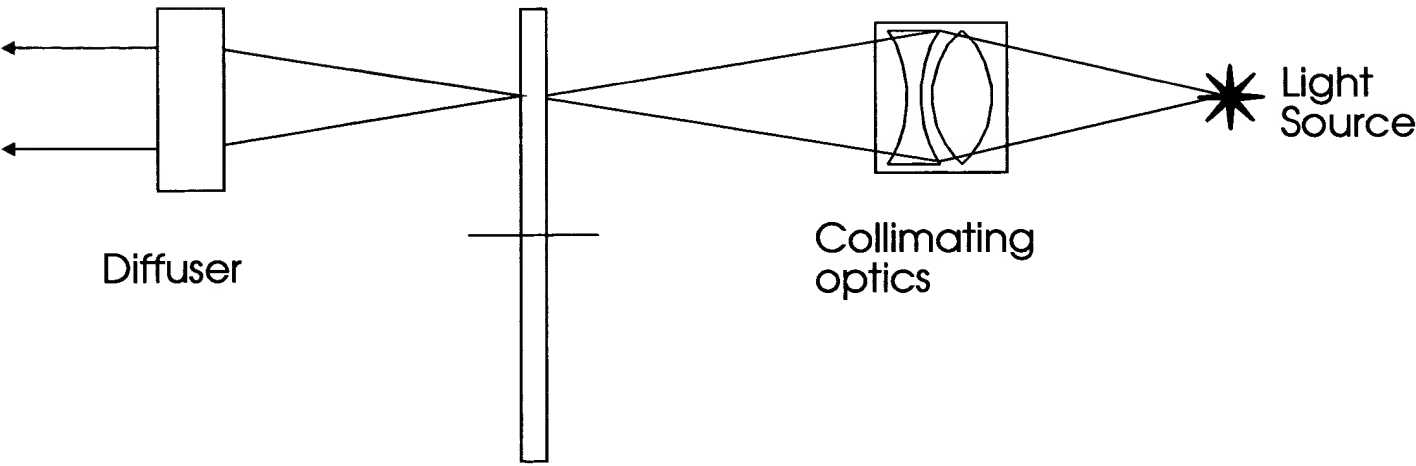


Fig. 26

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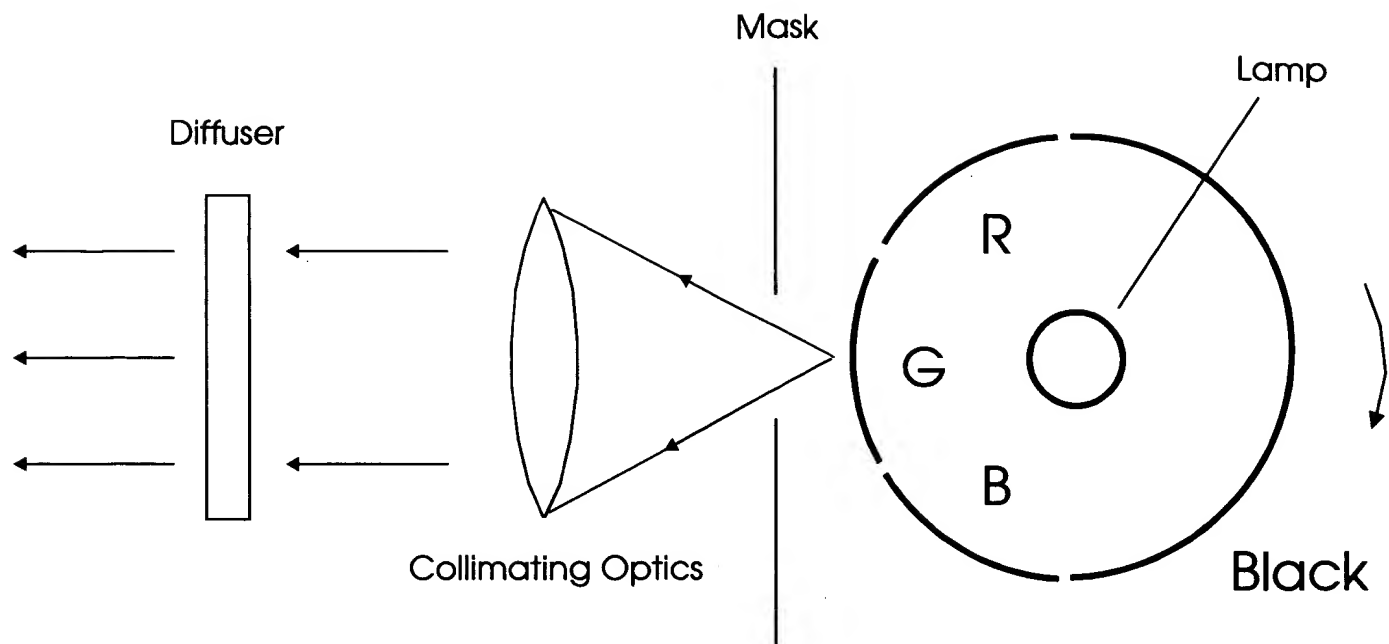


Fig. 27

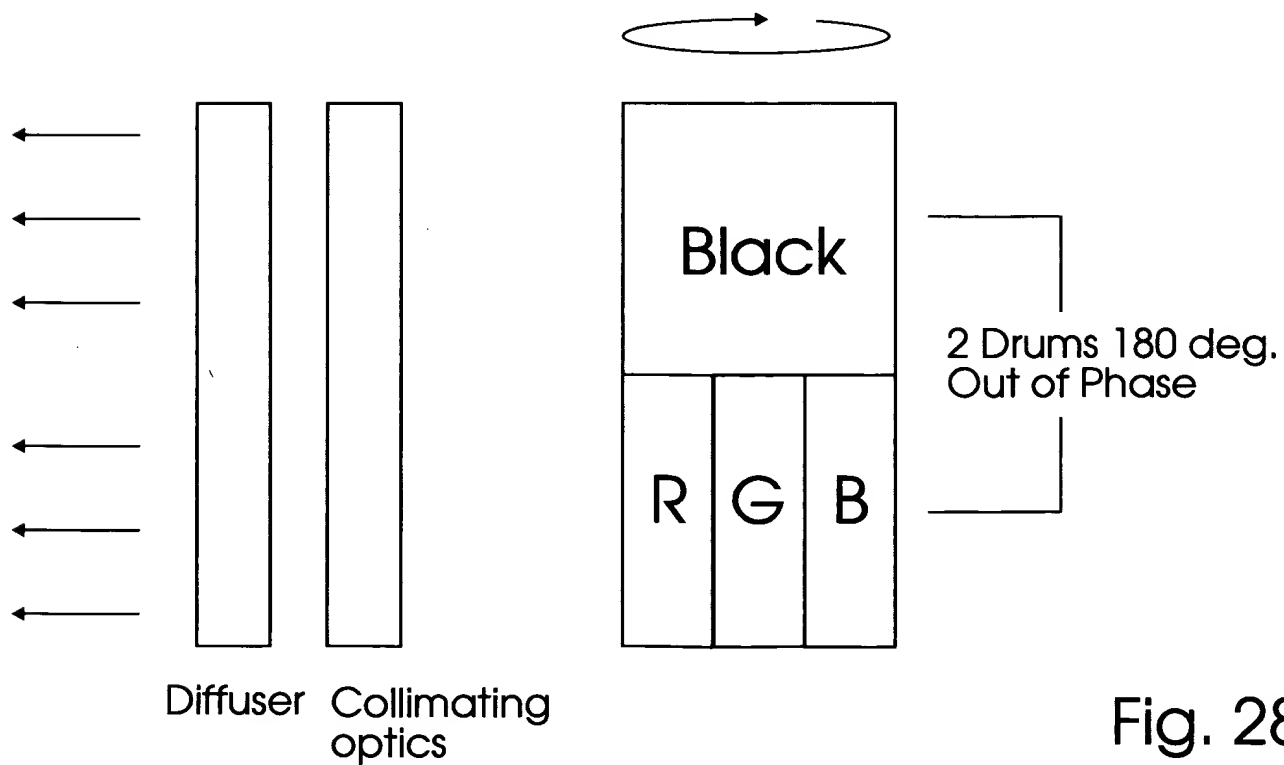
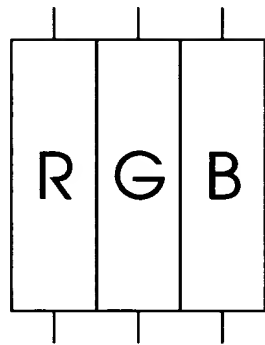
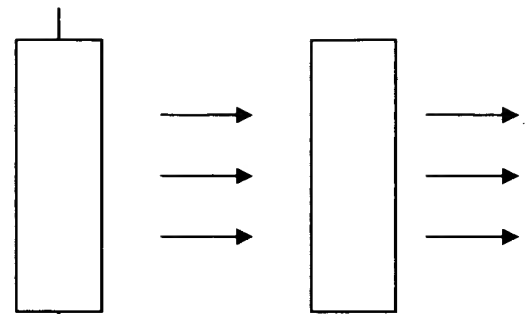


Fig. 28

Light sources



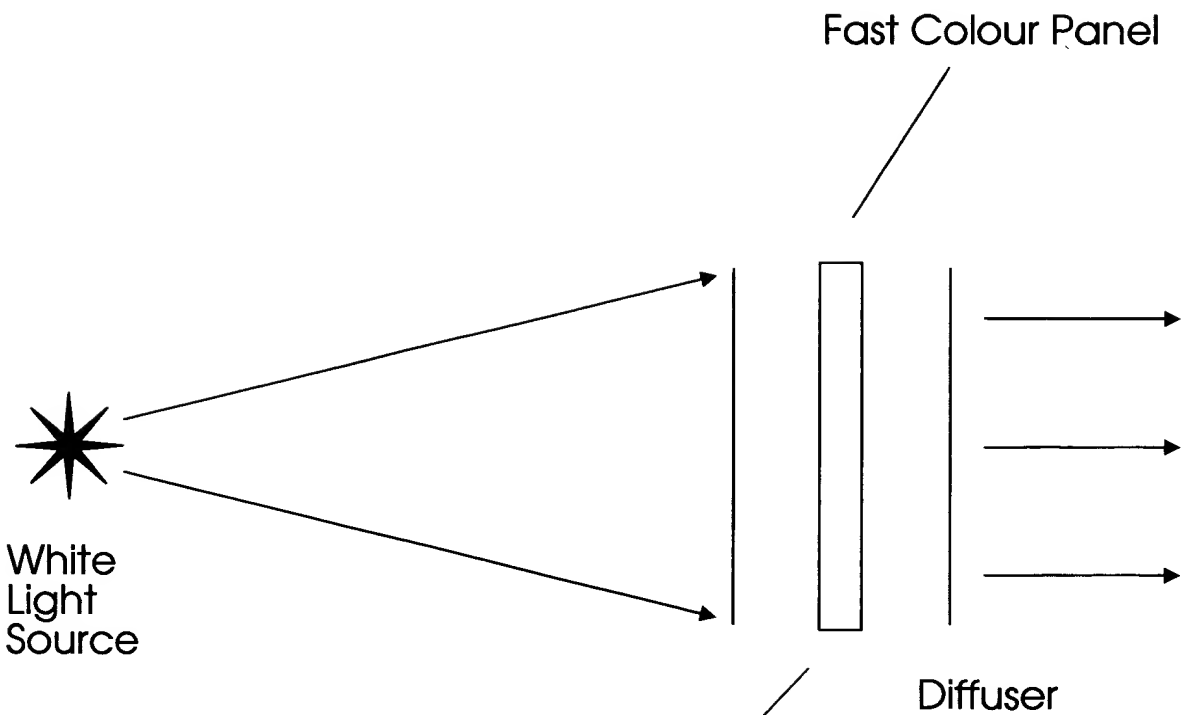
Light sources



Light sources

Diffuser

Fig. 29



White Light Source

Fast Colour Panel

Diffuser

Fresnel Lens

Fig. 30

Light sources

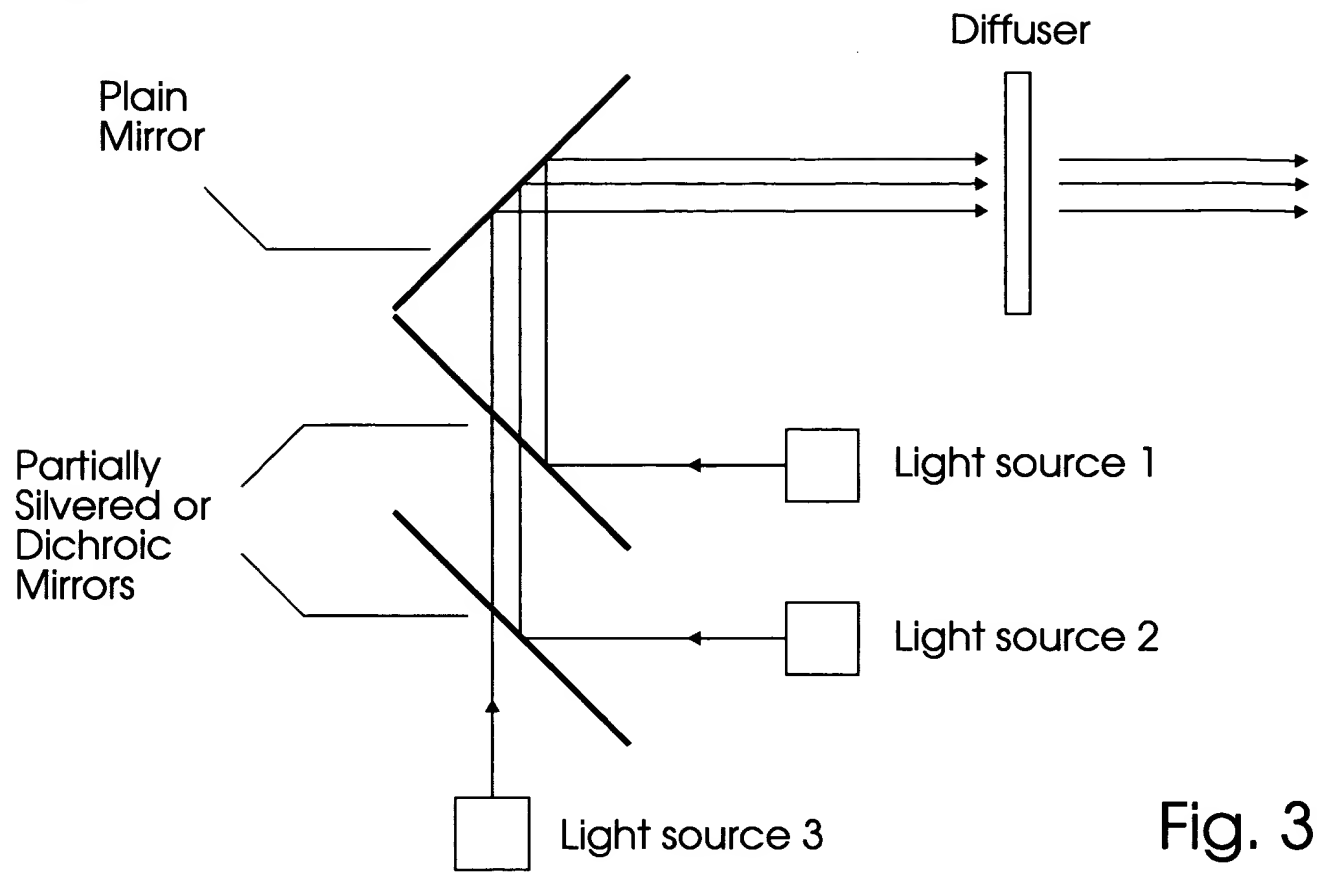


Fig. 31

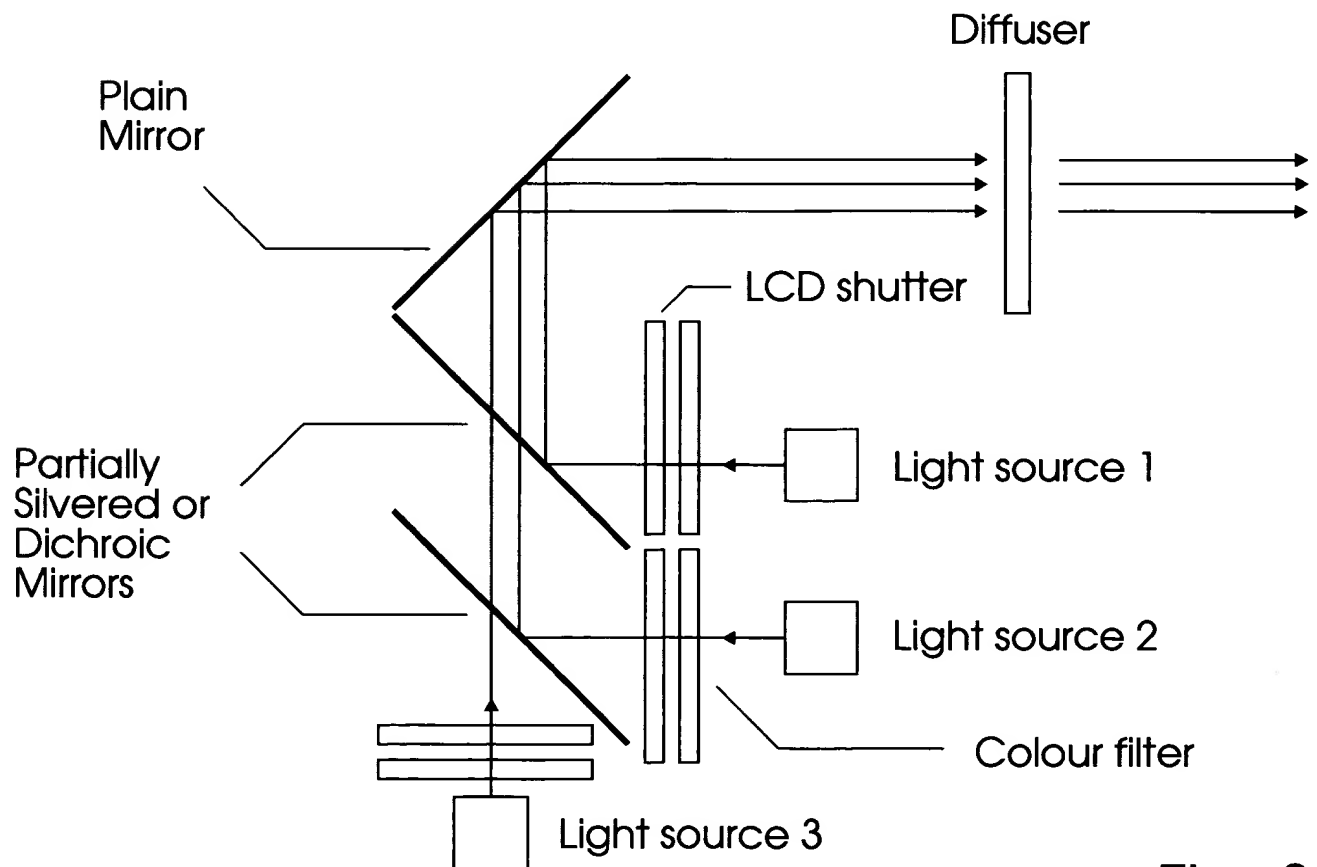


Fig. 32

Light Sources

LED Array-1 (Monochrome LEDs)

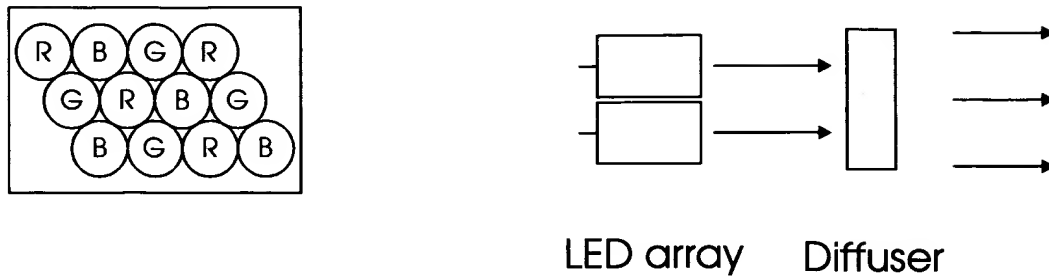


Fig. 33

LED Array - 2 (Full Spectrum LEDs)

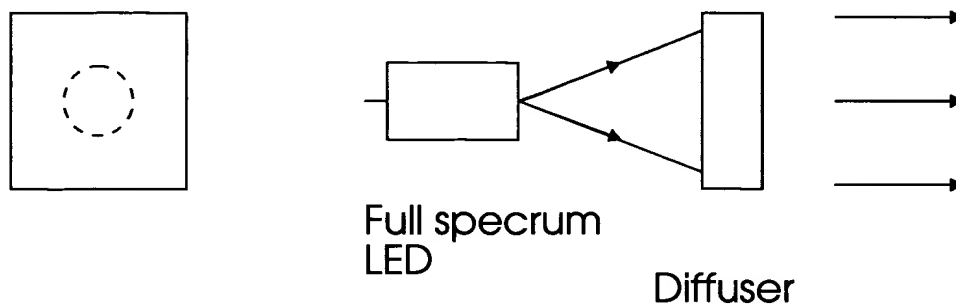


Fig. 34

Optical enhancements

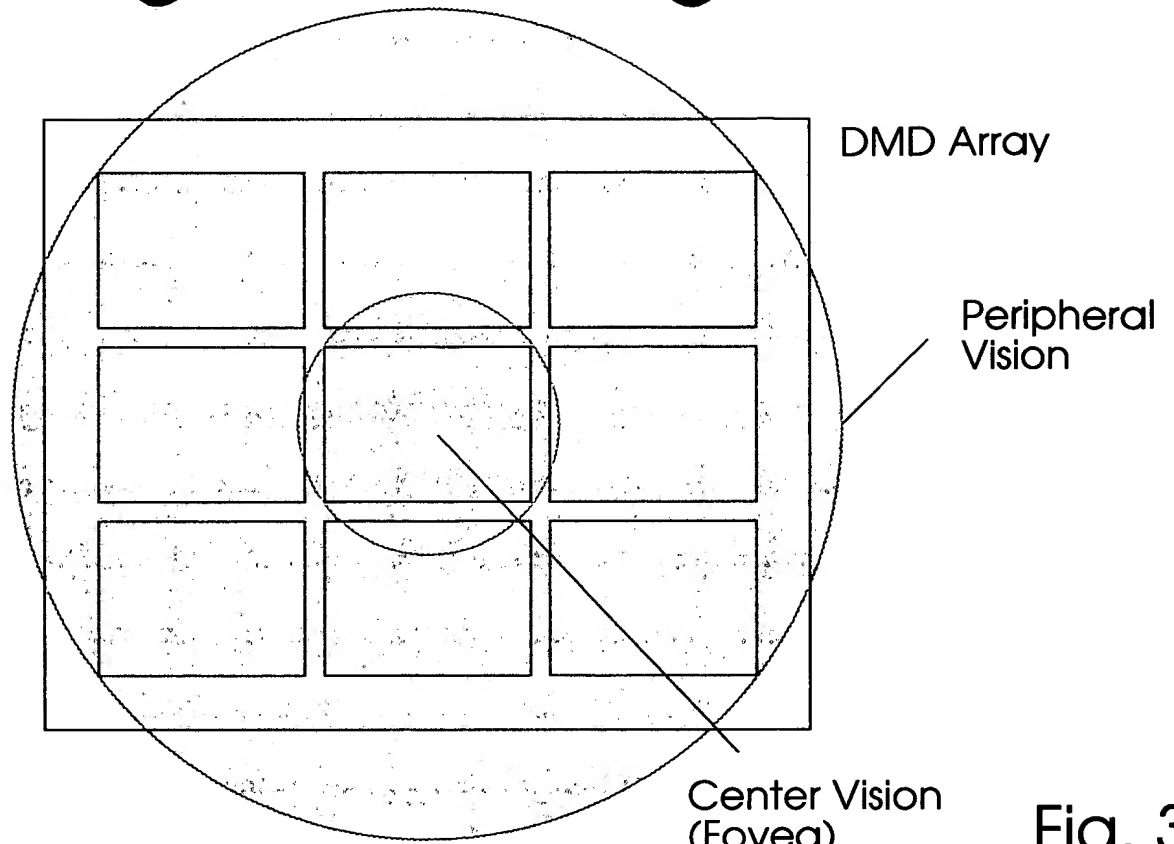


Fig. 35

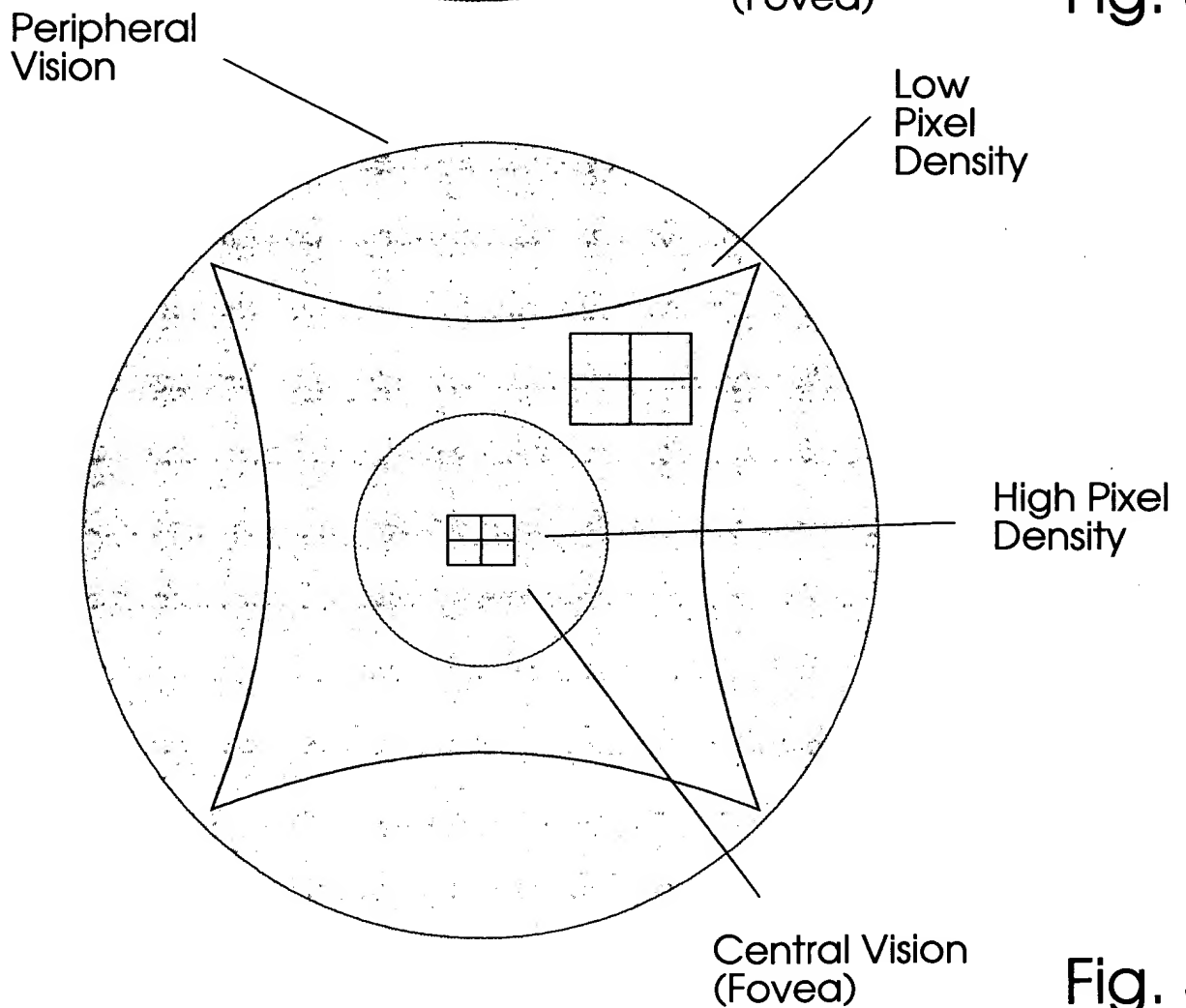


Fig. 36

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Colour space comparison

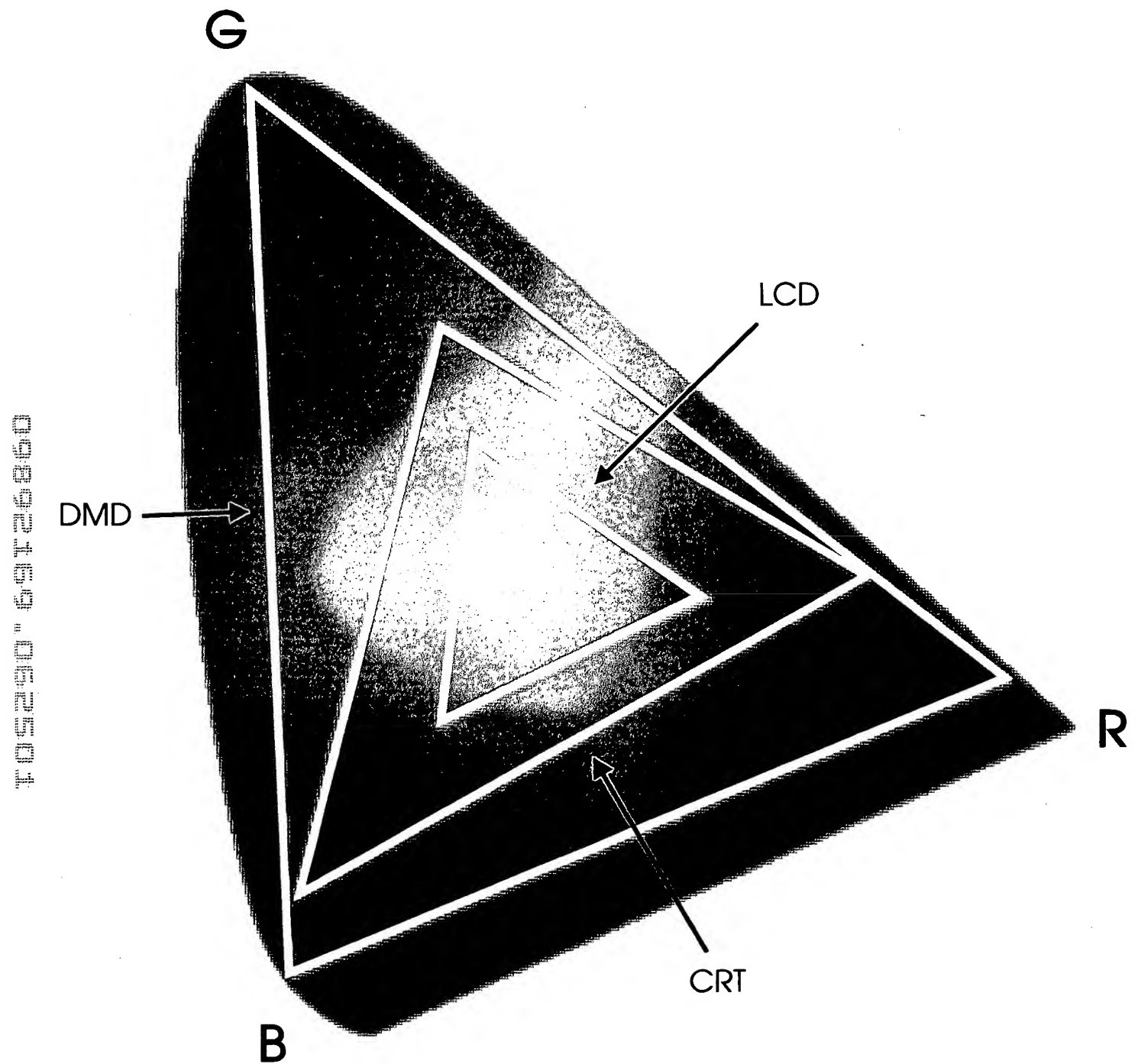


Fig. 37